



Liquid Inventory

Sulfuric acid 98% drain cleaner
 Nitrocellulose lacquer
 Glycerin
Hydrogen Peroxide 27%
 Acetone
 Alcohol
 Nitric Acid 67%
 Nitromethane 100%
 Methanol 100%

2

Powder Inventory

K
Potassium Chlorate (KClO₃) Stump remover
 Potassium Nitrate (KNO₃)
 Potassium Perchlorate (KClO₄)
 Barium Nitrate
 Sulfur Shaker array
 Sodium bicarbonate (baking soda)
 Strontium carbonate & nitrate
 Charcoal
 Bismuth trisulfide
 Aluminum powder - black & bright
 Magnesium 200 mesh
 Aluminum chips 40-60 mesh
 Magnesium chips 30-50 mesh & flake 325 mesh
 Antimony Tri sulfide 200 mesh
 Copper oxide - black
 PVC powder
 Dextrin
 Ammonium Nitrate (instant ice packs)
 Diatomaceous earth
Sodium Hydroxide - Lye / caustic soda
 Hexamine
 Ammonium perchlorate
 Parlon
 Red Gum
 Zinc dust
 Iron oxide powder
Citric Acid Ethyrihol

Pyro PowdersPrimary Detonators

HMTD

(will detonate all HE compounds)

• 5g = #8 cap

- Very sensitive to friction / shock / flame
- * Sublimates quickly; store under alcohol
- * must load into plastic container, will corrode

Flash70% Potassium Nitrate
30% Sulfur

20% Aluminum powder - black

Thecnite

75% Iron Oxide powder

25% Aluminum powder

Black powder

75% Potassium Nitrate

15% Charcoal

10% Sulfur

Tanercite

95% Ammonium Nitrate (instant rice packets)

05% Aluminum Powder - black

- Sensitize with flash powder & it will go off with a lower velocity round such as .22LR

Detonators

HMTD

(will detonate all HE compounds)

• 5g = #8 cap

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Synthesize in glass container ~~for metal~~

14g HMX dissolve into

45g 30% Hydrogen Peroxide

Place in an ice bath

21g Citric acid mixed in slowly

stir occasionally for several hours

yield

- Add fertilizer with distilled water

- Filter off crystallized product

- Rinse with water (removes acids)

- Rinse with alcohol & dry

Press into detonator cap (allow to dry 2 days)

Store under alcohol in cold refrigeration

Det Cap assembly (#8 equivalent)

copper or steel tube

plastic straw

hot glue

.5g HMTD

cotton w/ 2g

hot glue cotton plug

Homemade C-4

Plasticized ANNN version (liprod)

250ml Flour mix with
30ml Dark aluminum powder then mix
45ml Dry Ammonium Nitrate powder
Add 125ml Nitromethane 40% minimum
mixed thoroughly into a dough
Pack into PVC pipe $1\frac{1}{2}$ " X 6"
cap ends to seal from moisture
★ very stable / insensitive

Basic ANNN / ANFO

430 grams powder Ammonium Nitrate
80 milliliters Nitromethane

by weight SAN : 2 NM
f Add 5% Dark Aluminum powder to sensitize
and increase power

Bullseye Powder ANN

250ml powder Ammonium Nitrate
mix 5ml Dark aluminum powder
Set aside Sealed
50 ml Nitromethane + 1 TBSP Bullseye powder
mix thoroughly 30 mins
★ Used mixtures together & mold into
contains
- VERY POWERFUL

223/5.56 55g LOC - FMJ (\$0.25)

Accurate 246g - 20g - 2,800fps

CFE 223 -

270 Win 112g Hornady FTX (\$0.62)

1mR 4064 - 46g (1moA)
H380 - 44-50g

135g Sierra BTHP (\$0.65)

H380 - 46-47g

308 / 7.62 168g Hornady BTHP (\$0.80)

1mR 4064 - 42g - (4lg 1moA)

165g Hornady Speer (\$0.45)

Accurate 246g

150g Hornady Speer (\$0.45)

Combat RifleGunpowder Inventory

45/70 325g Hornady FTX (\$1.00)
 H4198 - 48g - 2,000 fps
 (2.010 short case)

305g Lehigh Controlled fracture
 (61.44)
 H4198 - 47g - 50g
 Accurate 5744 46g

305g Xirane Penetrator (61.44)
 H4198 - 47g - 50g
 Accurate 5744

200g

Accurate 5744

44/40 200g Magnum RNFP (cast lead)
 Black Powder FF - 35g (\$0.31)

5 ~~5~~ Corrosive powder $\frac{1}{16}$ and crimp case
 - very important to ensure BP is compressed
 with no airspace in case!

Primer S

20g shotshell
 Winchester LRM
 Winchester SR
 Federal LR

Weapon Inventory / Serial

- PSA - AR15 - .223/5.56 (PA-15 multi)
Hiroc 9" 37mm
#SCB002112
- PSA - AR308 - .308/7.62 (G3-10 multi)
Oscopy 16X Scope
with machine SME
#C308754
- Beretta Mod 66 - .44/40 (CAT 1563)
#76533
- Winchester 62A - .22 LR
Pump action
#381142
- Western Field - 20 gauge (MSSOC)
Pump action
#G775414
- Beretta 92FS - 9mm luger
#BER038708Z
- Ruger SR22P - .22 LR
#365-97727

37 mm loading

shell maximum diameter = 1.375"

Plastic shell - 25g FF₃ black powder
(50 yard range)
Aluminum shell - 40g FF₃ black powder
(100 yard range)

| Type | Color |
|------------------------------|----------------------|
| Hand Grenade - 20g | KClO4 - Green |
| String Grenade - 10g | KClO4 - Tan |
| Incision Grenade - 10g | KClO4 - Gray |
| Aerial Flare - | Green Stars - Orange |
| Air burst firework - Various | - white |
| Small | - |

209 shot shell crimped

- Press fit into plastic shells
 - Locking into aluminum shells

D# 50
Aluminized powder bushings hold 40g FFg BP creates a smaller area for powder burn resulting in a more powerful ignition and longer distance launch.

37mm load data

Hand Grenade

consists of a 3" long PVC (sch. 20)
 Paper tube .750" I.D. / .830" O.D. X 2 1/4" long

.177 steel BB's - Qty 250
 3mm canon fuse 1 1/2" long

3/4" paper discs or fender washers
 Hi strength hot melt glue

Assemble 20g UClO4 Explosive inside PVC
 Surround 250 BB's within PVC

~~* Sand inside of PVC before hot melt glue *~~
Stinger Grenade

3" long PVC
 Paper tube .625" I.D. / .685" O.D. X 2" long
 250 plastic airsoft BB's - Qty. 80-ish
 3mm canon fuse 1 1/2" long
 5/8" paper discs
 1 3/8" paper discs
 Hi strength hot melt glue

Assemble 10g UClO4 Explosive inside PVC
 Surround plastic BB's within PVC

| | | | |
|--|--|---|-----------------------------|
| <u>Concussion Grenade</u> | (Same construction as stinger grenade) | <u>Aerial Flare</u> | <u>Bleiser Purple Stars</u> |
| Paper tube .750" I.D. / .830" O.D. X 2 1/4" long | | 1 - 30g Fiji black powder over primer | 6g Potassium perchlorate |
| .177 steel BB's - Qty 250 | | 2 - 1 thin layer toilet paper | 6 copper oxide |
| 3mm canon fuse 1 1/2" long | | 3 - 1 3/8" paper disc with fire holes drilled | 9 Strontium carbonate |
| 3/4" paper discs | | 4 - 6-8 colored fire work stars | 11 PVC |
| Hi strength hot melt glue | | 5 - toilet paper wadding | |
| | | 6 - 1 3/8" paper disc - hot melt glue to seal | |
| | | | 5 Dextrin |

Firework Starts

PETN

Prepare ice bath

33 ml Nitric acid (67%) + 19ml sulfuric acid (94-99%)

mix until temperature stabilizes $< 10^{\circ}\text{C}$

Slowly stir in Pentaerythritol 10g (98% AR grade powder)
Keep temp below 15°C - If it firms, red dump it out

Let sit for 10 mins $< 15^{\circ}\text{C}$

prepare warm water bath 50°C

Raise temp of mixture in bath to 50°C

Let sit for 20 mins at 50°C

Cash mixture into Cold distilled water

Rinse / Dry / Recrystallize same as ETN

- If it starts to yellow, end process & filter

ETNETN method 1

| | |
|--------------------------|---------------------------|
| 12ml Nitric acid (67%) | 12g Ammonium Nitrate ball |
| 18ml Sulfuric acid (97%) | 30ml Sulfuric acid |
| 3g powder Erythritol | 3g powder Erythritol |

ETN thermal detonator

BP rolled with fuse



BP fuse 5g ETN powder rolled with 3 layers
of aluminum foil

* ETN will not detonate with direct contact
to flame / fuse

= 10g Booster

Seal

5g HMTD
5g powder ETN

10g melt cast ETN
plastic container



Seal

Very high power primary/secondary HE
- VED 8,000 m/s when melt cast 12g/cm
Prepare large ice bath
mix chilled Nitric acid (67%) 12ml
+ chilled Sulfuric acid (98%) 18ml
mix until temp stabilized < 5°C
Slowly stir in Erythritol 3g - below < 5°C (fine powder)
Remove from ice bath maintain 10°C - 30 mins.
Crash mixture into cold water slowly
Filter ETN crystals
Rinse with sodium bicarbonate water
Rinse with distilled water

* DRY RAW ETN *

Dissolve crystals into small amount of Acetone
Crash into turbulent cold water - stirring fast
to create smaller crystals
Filter Recrystallized ETN
* DRY pure ETN

Melt Casting
This creates a dense block of solid ETN
that can be melt or poured into a mold
- Double boil a glass container of water 180°F
Submerge/Flood mold with powdered ETN
- use a well tight container that can withstand water temperature
- Allow to cool slowly